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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	licant's or agent's file reference See Notification of Transmittal of International			
55942PCT7169		OR FURTHER ACTION Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/mo	onth/year)	Priority date (day/month/year)	
PCT/US02/41901	31 December 2002 (31.12.2002)			
International Patent Classification (IPC)	or national classification and IPC	•		
IPC(7): G01V 3/00 and US Cl.: 324/322	<u> </u>			
Applicant	•		•	
THE JOHNS HOPKINS UNIVERSITY			·	
This international preliming Examining Authority and	1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.			
2. This REPORT consists of	2. This REPORT consists of a total of 3 sheets, including this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of	a total ofsheets.			
3. This report contains indications relating to the following items:				
I Basis of the re	I Basis of the report			
II Priority				
III Non-establishr	ment of report with regard to novelty, inventive step and industrial applicability			
IV Lack of unity				
V Reasoned state	tatement under Article 35(2) with regard to novelty, inventive step or industrial y; citations and explanations supporting such statement			
VII Certain defect	n defects in the international application			
	n observations on the international application			
Date of submission of the demand	Da	ate of completio	n of this report	
24 June 2003 (24.06.2003)	22	July 2003 (22.07	(.2003)	
Name and mailing address of the IPEA/US		Authorized officer		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		ouis M. Arana	Shame 1, 11	
P.O. Box 1450 Alexandria, Virginia 22313-145 Facsimile No. (703)305-3230	50 Te	elephone No. (70	3) 306-3431	

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINA

EXAMINATION REPORT

International applicati	on No.	
PCT/US02/419	•	

I.	Basis	s of the report			
1.	With	regard to the elements of the international application:*			
	\boxtimes	the international application as originally filed.			
	冈	the description:			
		pages 1-62 as originally filed			
		pages NONE , filed with the demand			
		pages NONE, filed with the letter of			
	M	the claims:			
		pages 63-79 , as originally filed			
		pages NONE , as amended (together with any statement) under Article 19			
		pages NONE , filed with the demand pages NONE , filed with the letter of .			
		the drawings:			
		pages 1-12 , as originally filed pages NONE , filed with the demand			
		pages NONE , filed with the letter of .			
		the sequence listing part of the description:			
	ш	pages NONE , as originally filed			
		pages NONE , filed with the demand			
		pages NONE, filed with the letter of			
2.		regard to the language, all the elements marked above were available or furnished to this Authority in the			
	_	age in which the international application was filed, unless otherwise indicated under this item.			
	These	e elements were available or furnished to this Authority in the following language which is:			
	\square	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).			
	\square	the language of publication of the international application (under Rule 48.3(b)).			
		the language of the translation furnished for the purposes of international preliminary examination(under Rules			
		55.2 and/or 55.3).			
3.		regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:			
		contained in the international application in printed form.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.			
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
		international application as filed has been furnished.			
		The statement that the information recorded in computer readable form is identical to the written sequence listing			
		has been furnished.			
4.		The amendments have resulted in the cancellation of:			
		the description, pages NONE			
		the claims, Nos. NONE			
		the drawings, sheets/fig NONE			
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5.	<u></u>	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
thi.	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				
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INTERNATIONAL PRELIMINAR	AMINATION REPORT
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International application No. PCT/US02/41901

	· ·			
v.	Reasoned statement under Rule 60	6.2(a)(ii) with regard to novelty,	, inventive step or industrial app	olicability;
	citations and explanations support			

	citations and explanations supporting such statement			
1.	STATEMENT			
	Novelty (N)	Claims	1-79	YES
	novely (1)	Claims		NO
	Inventive Step (IS)	Claims	1-79	YES
	· Antonia o Bor (any	Claims	NONE	NO
	Industrial Applicability (IA)	Claims	1-79	YES
	mouseum rapparates y (==)	Claims	NONE	NO

2. CITATIONS AND EXPLANATIONS

Claim1-79 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a strip antenna having a number of parallel conductors and corresponding at least one reactive tuning component connected to the conductors and ground, such tat the total apparent electrical length of the combination is a n integer multiple of a quarter wavelength.

Claims 1-79 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.